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| S2    | 492  | 717/140.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | OFF     | 2005/12/20 11:12 |
| S3    | 95   | driver same compil\$4 same modif\$4   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2005/12/20 11:13 |
| S4    | 97   | driver same compil\$4 same modif\$6   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2005/12/20 11:15 |
| S5    | 3    | (S1 S2) and S4  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2005/12/20 11:14 |
| S6    | 966  | 709/221.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2005/12/20 11:14 |
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| S8    | 3    | (S1 S2 S6) and S4   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2005/12/20 11:15 |
| S9    | 114  | driver same \$2compil\$4 same modif\$6  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2005/12/20 11:15 |
| S10   | 24   | driver same re\$compil\$4 same modif\$6   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2005/12/20 11:55 |
| S11   | 9    | driver same re\$compil\$4 same modif\$6 same kernel                             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2005/12/20 12:07 |
| S12   | 140  | (dynamic\$4 with device near2 driver) and ( (compil\$4 or link\$4) same kernel) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2005/12/20 12:08 |

|     |    |   |   |    |     |                  |
|-----|----|---|---|----|-----|------------------|
| S13 | 26 | (dynamic\$4 with device near2 driver) and ( (compil\$4 or link\$4) same modif\$4 same kernel) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2005/12/20 12:11 |
| S14 | 6  | (dynamic\$4 with device near2 driver) and (\$2compil\$4 same modif\$4 same kernel)            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2005/12/20 12:14 |
| S15 | 16 | (dynamic\$4 with device near2 driver) and (\$2compil\$4 same modif\$4 same (device kernel) )  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2005/12/20 13:01 |
| S16 | 95 | (dynamic\$4 near5 device near2 driver) and \$2compil\$4 and (modif\$4 same (device kernel) )  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2005/12/20 13:03 |
| S17 | 39 | (dynamic\$4 near5 device near2 driver) and \$2compil\$4 and (modif\$4 same kernel)            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2005/12/20 13:03 |
| S18 | 1  | "6668277".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2005/12/23 14:21 |
| S19 | 0  | compil\$4 same open\$source near operating near system\$1                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2005/12/23 14:21 |
| S20 | 1  | compil\$4 same open near source near2 operating near2 system\$1 same driver                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2005/12/23 14:24 |
| S21 | 18 | linux same driver same compil\$4  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2005/12/23 14:26 |



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1 [Kernel Corner Writing a Linux Driver](#)

Fernando Matia

April 1998 **Linux Journal**

**Publisher:** Specialized Systems Consultants, Inc.

Full text available: [html\(26.11 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The main goal of this article is to learn what a driver is, how to implement a driver for Linux and how to integrate it into the operating system. An article for the experienced C programmer

2 [Plug and Play Hardware under Linux](#)

David Cantrell

August 1999 **Linux Journal**

**Publisher:** Specialized Systems Consultants, Inc.

Full text available: [html\(11.97 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

3 [Porting from IRIX to Linux](#)

George Koharchik, Brian Roberts

February 2001 **Linux Journal**

**Publisher:** Specialized Systems Consultants, Inc.

Full text available: [html\(30.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Coding for portability to Linux: examples from the ACRT land vehicle port.

4 [System-wide compaction and specialization of the linux kernel](#)



Dominique Chanut, Bjorn De Sutter, Bruno De Bus, Ludo Van Put, Koen De Bosschere

June 2005 **ACM SIGPLAN Notices , Proceedings of the 2005 ACM SIGPLAN/SIGBED conference on Languages, compilers, and tools for embedded systems**

**LCTES'05**, Volume 40 Issue 7

**Publisher:** ACM Press

Full text available: [pdf\(895.17 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The limited built-in configurability of Linux can lead to expensive code size overhead when it is used in the embedded market. To overcome this problem, we propose the application of link-time compaction and specialization techniques that exploit the *a priori* known, fixed run-time environment of many embedded systems. In experimental setups based on the

ARM XScale and i386 platforms, the proposed techniques are able to reduce the kernel memory footprint with over 16%. We also show how rel ...

**Keywords:** compaction, linux kernel, operating system, specialization, system calls


5 [Driving me nuts: the USB serial driver layer, Part II](#) 

Greg Kroah-Hartman

April 2003 **Linux Journal**, Volume 2003 Issue 108

**Publisher:** Specialized Systems Consultants, Inc.

Full text available:  [html\(14.23 KB\)](#) Additional Information: [full citation](#), [index terms](#)

6 [Linux on Mobile Computers: Taking your Linux workstation wherever you go.](#) 

Kenneth E. Harker

June 1996 **Linux Journal**

**Publisher:** Specialized Systems Consultants, Inc.

Full text available:  [html\(23.49 KB\)](#) Additional Information: [full citation](#), [index terms](#)

7 [CD-ROMs and Linux](#) 

Jeff Tranter

November 1994 **Linux Journal**

**Publisher:** Specialized Systems Consultants, Inc.

Full text available:  [html\(15.13 KB\)](#) Additional Information: [full citation](#), [index terms](#)

8 [Product Review: Berkshire PC Watchdog](#) 

David Walker

August 1997 **Linux Journal**

**Publisher:** Specialized Systems Consultants, Inc.

Full text available:  [html\(9.46 KB\)](#) Additional Information: [full citation](#), [index terms](#)

9 [Porting SGI Audio Applications to Linux](#) 

David Phillips, Richard Kent

September 1998 **Linux Journal**

**Publisher:** Specialized Systems Consultants, Inc.

Full text available:  [html\(18.27 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This article describes the process of porting a variety of audio applications from the SGI platform to the Linux operating system

10 [Building an ISP Using Linux and an Intranet](#) 

Eric Harlow

September 1997 **Linux Journal**

**Publisher:** Specialized Systems Consultants, Inc.

Full text available:  [html\(18.66 KB\)](#) Additional Information: [full citation](#), [index terms](#)

**11** OSS/Linux Sound Driver 

Jeff Tranter

June 1997 **Linux Journal****Publisher:** Specialized Systems Consultants, Inc.Full text available:  [html\(10.71 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)**12** Kernel Korner: Linux on Alpha AXP January 1996 **Linux Journal****Publisher:** Specialized Systems Consultants, Inc.Full text available:  [html\(16.21 KB\)](#) Additional Information: [full citation](#), [index terms](#)**13** Mondrix: memory isolation for linux using mondriaan memory protection 

Emmett Witchel, Junghwan Rhee, Krste Asanović

October 2005 **ACM SIGOPS Operating Systems Review , Proceedings of the twentieth ACM symposium on Operating systems principles SOSP '05**, Volume 39 Issue 5**Publisher:** ACM PressFull text available:  [pdf\(332.09 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents the design and an evaluation of Mondrix, a version of the Linux kernel with Mondriaan Memory Protection (MMP). MMP is a combination of hardware and software that provides efficient fine-grained memory protection between multiple protection domains sharing a linear address space. Mondrix uses MMP to enforce isolation between kernel modules which helps detect bugs, limits their damage, and improves kernel robustness and maintainability. During development, MMP exposed two kerne ...

**Keywords:** fine-grained memory protection**14** Open Database Connectivity 

Peter Harvey

November 1999 **Linux Journal****Publisher:** Specialized Systems Consultants, Inc.Full text available:  [html\(25.07 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Mr. Harvey describes the ODBC open specification for application developers

**15** The Flux OSKit: a substrate for kernel and language research 

Bryan Ford, Godmar Back, Greg Benson, Jay Lepreau, Albert Lin, Olin Shivers

October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles SOSP '97**, Volume 31 Issue 5**Publisher:** ACM PressFull text available:  [pdf\(2.47 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**16** Inner Workings of WANPIPE 

Nenad Corbic, David Mandelstam

February 2001 **Linux Journal****Publisher:** Specialized Systems Consultants, Inc.Full text available:  [html\(16.82 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Corbic and Mandelstam discuss the structure and user interfaces to the WANPIPE drivers as they have evolved and currently exist.

### 17 Linux Gazette

David B. Nelson

October 1998 **Linux Journal**

**Publisher:** Specialized Systems Consultants, Inc.

Full text available:  [html\(8.59 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Mastering Kernel Modules with Caldera: Mr. Nelson gives us step-by-step instructions for loading kernel modules, so we can keep our kernel lean

### 18 Device driver programming in a transactional DSM operating system

T. Bindhammer, R. Göckelmann, O. Marquardt, M. Schöttner, M. Wende, P. Schulthess

January 2002 **Australian Computer Science Communications , Proceedings of the seventh Asia-Pacific conference on Computer systems architecture - Volume 6 CRPITS '02**, Volume 24 Issue 3

**Publisher:** Australian Computer Society, Inc. , IEEE Computer Society Press

Full text available:  [pdf\(750.85 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Plurix project implements an object-oriented operating system (OS) for PC clusters. Network communication is implemented via the distributed shared memory (DSM) paradigm. Memory consistency is maintained by restartable transactions and an optimistic synchronization scheme, that have been used in database technology in the past. Originally, DSM systems were built to support parallel algorithms, but using DSM as a foundation for a general purpose OS offers interesting perspectives in designing ...

**Keywords:** distributed shared memory, driver development, operating system, optimistic concurrency control

### 19 Best of technical support

Linux Journal Staff

February 2005 **Linux Journal**, Volume 2005 Issue 130

**Publisher:** Specialized Systems Consultants, Inc.

Full text available:  [html\(18.47 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

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### 20 Tips for Optimizing Memory Usage: How to make the most of your computer's memory.

Jeff Tranter

June 1994 **Linux Journal**

**Publisher:** Specialized Systems Consultants, Inc.

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